

Aayush Kumar

+91 80976827 | aayush23206@gmail.com | Portfolio | github.com/aayush23206

SUMMARY

Passionate Computer Science Engineer specializing in Artificial Intelligence and Machine Learning, with a strong drive to build innovative, real-world solutions. Proficient in Python, Java, and C, with hands-on exposure to cloud platforms, DevOps tools, and full-stack fundamentals. Committed to continuous learning and bridging the gap between academic knowledge and industry-ready skills. Eager to contribute to impactful technology through collaboration, problem-solving, and a results-driven mindset.

EDUCATION

Parul Institute Of Engineering And Technology <i>Bachelor of Technology in Computer Science Engineering CGPA: 7.5</i>	Vadodara, India <i>August 2024 – June 2028</i>
Maharashtra State Board (HSC) <i>Science (PCM)</i>	Mumbai, India <i>June 2024</i>

TECHNICAL SKILLS

- Languages:** Python, Java, C, JavaScript, HTML/CSS
- Libraries/Frameworks:** OpenCV, MediaPipe, NumPy
- Developer Tools:** Git, GitHub, Docker, Linux, VS Code
- Cloud/Platforms:** Microsoft Azure
- Databases:** MySQL, MongoDB

PROJECTS

- BST Visualizer** | Python, Data Structures, Algorithms December 2025
- Built a Binary Search Tree visualizer implementing insert, delete, and search operations
 - Implemented DFS and BFS traversals including Inorder, Preorder, Postorder, and Level Order
 - Designed modular Python architecture with automated testing
 - Distributed the application as a standalone executable using PyInstaller
- Air Canvas** | Python, OpenCV, MediaPipe, Computer Vision January 2025
- Developed a real-time gesture-based drawing system using MediaPipe and OpenCV to control a virtual canvas through hand movements
 - Implemented hand landmark detection tracking 21 key points to accurately recognize drawing and erase gestures
 - Achieved real-time performance of 25–30 FPS enabling smooth and responsive drawing interactions
 - Designed gesture controls allowing users to draw with the index finger and erase using multi-finger detection

CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900) — Parul University, 2025
- Oracle Cloud Infrastructure Foundations Associate — Oracle, 2026
- Data Analytics Essentials — Cisco Networking Academy, 2026
- Claude Code in Action — Anthropic, 2026

ACHIEVEMENTS

- Best Project Award** — ByteXL Pvt. Ltd.